

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2656	362/297,346.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:09
L2	2693	(semiconductor light emitting chips) or (light emitting diode chips)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:09
L3	7	1 and L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:09
S1	4	((("5001609") or ("6495861"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/09 18:01
S2	24	("3593055"   "4907044"   "5001609"   "5813753"   "6274890").PN. OR ("6495861").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/09 18:03
S3	6	("3821775"   "5534718"   "6274890"   "6495861"   "6774406").PN. OR ("7042021").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/09 18:23
S4	21	("3821775").URPN.	USPAT	NEAR	ON	2007/05/09 18:26
S5	24	("3593055"   "4907044"   "5001609"   "5813753"   "6274890").PN. OR ("6495861").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/09 18:30
S6	2688	(semiconductor light emitting chips) or (light emitting diode chips)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:09

## EAST Search History

S7	129	(concave reflector) with (reflect\$4 mirrors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:33
S8	976	(concave reflector) and (reflect\$4 mirrors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:37
S9	4	S6 and S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:34
S10	2099	(concave reflector) and mirrors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:36
S11	6	S6 and S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:36
S12	59	(concave reflector) with facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:40
S13	0	S6 and S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:39

## EAST Search History

S14	57	(curv\$4 reflector) with facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:40
S15	475	S6 and reflector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:41
S16	11	S6 and (concave reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:38
S17	130	S6 and (reflector same mirrors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:51
S18	0	275/98.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:32
S19	2993	257/98.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:52
S20	438	257/98.ccls. and chip and reflector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:52

## EAST Search History

S21	195	257/98.ccls. and chip and reflector and mirrors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:53
S22	5	257/98.ccls. and chip and (concave reflector) and mirrors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:53
S23	9	257/98.ccls. and chip and (concave reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:54
S24	30	"257"/\$.ccls. and chip and (concave reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/09 18:54
S25	3	zhao-hongtu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:32
S26	0	zhao-hongwell.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:33
S27	0	zhao-hongwel.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:33

## EAST Search History

S28	5	zhao-hongwei.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:33
S29	5	S25 or S28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:35
S30	2693	(semiconductor light emitting chips) or (light emitting diode chips)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:54
S31	4806	(concave reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:39
S32	367	(concave reflector) and facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:39
S33	2904	reflector with facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:41
S34	57	(curv\$3 reflector) with facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 17:56

## EAST Search History

S35	223	(curv\$3 with reflector) with facet\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:41
S36	3082	S32 or S33 or S34 or S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:42
S37	340	S30 with (plurality or (more than one))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:44
S38	432	S30 same (plurality or (more than one))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:44
S39	432	S37 or S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:45
S40	2	S39 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:45
S41	14	("4964025"   "5255171"   "5723868"   "5810463"   "5921652"   "6191872"   "6200002"   "6257737").PN. OR ("6547416").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/10 14:14

## EAST Search History

S42	0	S30 with focus with S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:55
S43	505	focus with S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:54
S44	0	S30 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:54
S45	0	S30 same (focus with S31)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:55
S46	0	S30 and (focus with S31)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:55
S47	5	S30 with (focus with reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:56
S48	64	S30 same (focus with reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:56

## EAST Search History

S49	88	S30 and (focus with reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:01
S50	88	S47 or S48 or S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 13:56
S51	134	S30 and reflector and focus	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/10 14:14
S52	49	S51 not S50	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/10 15:06
S53	5	((("20030016536") or ("20030103348") or ("6773138") or ("6955451") or ("7064355"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:11
S54	6	((("20030016536") or ("20030103348") or ("6773138") or ("6955451") or ("7064355") or ("6652122"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:13
S55	2	("6238073").PN. OR ("6652122"). URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/10 15:12
S56	5	((("20030103348") or ("6773138") or ("6955451") or ("7064355") or ("6652122"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:14
S57	4	((("20030103348") or ("6773138") or ("6955451") or ("6652122"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:27
S58	1	("1701149").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:29
S59	1	("20050001433").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:39
S60	0	((("6492725" "6686609" "6715900" "6773138" "6955451" "7048412" "7053419").PN.)).PN.	USPAT	OR	OFF	2007/05/10 15:39
S61	15	((("6492725" "6686609" "6715900" "6773138" "6955451" "7048412" "7053419").PN.)).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 15:39



## EAST Search History

S62	7	("6492725" "6686609" "6715900" "6773138" "6955451" "7048412" "7053419").PN.	USPAT	NEAR	ON	2007/05/10 15:40
S63	17	("20030063474"   "20030063476"   "20030103348"   "20030107046"   "4588883"   "5506760"   "5655830"   "6164798"   "6190020"   "6320182"   "6350041"   "6412971"   "6525668"   "6573536"   "6682211").PN. OR ("7048412").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/10 16:53
S77	0	DE-9206859.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 17:01
S78	0	DE-09206859.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 17:04
S79	0	DE-93108305.S33.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/10 17:05
S80	0	("0570987").PN.	EPO; DERWENT	OR	OFF	2007/05/10 17:05
S81	0	("0570987").PN.	EPO; DERWENT	OR	OFF	2007/05/10 17:05
S82	834	(curv\$3 reflector) with (facet\$4 or sections or portions or mirrors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 17:59
S83	2693	(semiconductor light emitting chips) or (light emitting diode chips)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 17:57

## EAST Search History

S84	1	S82 and S83	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 17:59
S85	2847	(curv\$3.reflector) and (facet\$4 or sections or portions or mirrors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 17:59
S86	2	S85 and S83	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/11 18:00
S87	5	((("6644841") or ("5001609") or ("6495861") or ("6682211") or ("7048412")).PN.	USPAT	OR	OFF	2007/05/11 18:02
S88	17	("20030063474"   "20030063476"   "20030103348"   "20030107046"   "4588883"   "5506760"   "5655830"   "6164798"   "6190020"   "6320182"   "6350041"   "6412971"   "6525668"   "6573536"   "6682211").PN. OR ("7048412").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:02
S89	14	("20040165387"   "20050052870"   "5644475"   "6231207"   "6343871"   "6425678"   "6435459"   "6481130"   "6525668"   "6538899"   "6709132"   "6773138"   "7014337"   "7048412").PN. OR ("7207695").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:03
S90	10	("4733335"   "5580156"   "5723868"   "6296376"   "6547416"   "6573653"   "D474303").PN. OR ("6644841").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:05
S91	24	("3593055"   "4907044"   "5001609"   "5813753"   "6274890").PN. OR ("6495861").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:07

## EAST Search History

S92	55	("3609475"   "3780357"   "3821775"   "3875456"   "3923381"   "3957031"   "4002499"   "4003638"   "4045246"   "4114592"   "4130107"   "4230095"   "4237332"   "4240692"   "4359265"   "4387961"   "4483007"   "4651261"   "4684919"   "4698730"   "4742432").PN. OR ("5001609"). URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:08
S93	55	("3609475"   "3780357"   "3821775"   "3875456"   "3923381"   "3957031"   "4002499"   "4003638"   "4045246"   "4114592"   "4130107"   "4230095"   "4237332"   "4240692"   "4359265"   "4387961"   "4483007"   "4651261"   "4684919"   "4698730"   "4742432").PN. OR ("5001609"). URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:12
S94	28	("3581162"   "4963798"   "5136483"   "5160201"   "5561346"   "5707139"   "6147367"   "6149283"   "6200134"   "6220722"   "6367949").PN. OR ("6682211"). URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:30
S95	325	362/297.ccls. and concave	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:32
S96	3	362/297.ccls. and concave and S83	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:31
S97	10	S83 with focus	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:31
S98	205	362/297.ccls. and concave and (focus or focal)	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:32
S99	37	("0153341"   "1347268"   "1394319"   "2751816"   "3511983"   "3768900"   "4021549"   "4041344"   "4153929"   "4545000"   "4608512"   "4686412"   "4755711"   "4829210"   "4833576"   "4918353"   "D061209"   "D061210"   "D253195").PN. OR ("5272408"). URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:57

## EAST Search History

S10 0	2	("6851835").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 18:57
S10 1	2	("4964025"   "6644841").PN. OR ("6851835").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 18:57
S10 2	2	("4964025"   "6644841").PN. OR ("6851835").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/05/11 19:04
S10 3	2	("6644841").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/12 13:50
S10 4	2	("7048412").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/12 16:29
S10 5	12	((("7048412") or ("6851835") or ("6682211") or ("6652122") or ("6644841") or ("20030103348") or ("20030063476") or ("6454433") or ("6080464") or ("4964025") or ("4907044") or ("3821775"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/05/12 17:00
S10 6	10938	362/247,545,507,249,296,310,326, 327,346,350,360,800.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:03
S10 7	2693	(semiconductor light emitting chips) or (light emitting diode chips)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:04

## EAST Search History

S10 8	5	S107 with (focus with reflector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:04
S10 9	175	S107 and reflector and (focal or focus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:05
S11 0	42	S109 and S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:06
S11 1	11	S105 and S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:06
S11 2	124	S106 and S107	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/05/12 17:08